

Title (en)
INFRA-RED RADIATION DETECTOR

Publication
EP 0145071 B1 19930127 (EN)

Application
EP 84201724 A 19841128

Priority
GB 8332264 A 19831202

Abstract (en)
[origin: EP0145071A2] A pyroelectric infra-red radiation detector which is particularly suited to automated assembly comprises a pyroelectric detector element (1) mounted in a housing (4) having a window (5) transparent to infra-red radiation. Electrically conductive leads (6,7,8), e.g. in a single-in-line configuration, extend through a base portion (9) of the housing for making external electrical connections to the detector. Lead (8) comprises an extended portion (8b,8c,8d) within the housing providing a cantilever support (8d) to which the detector element (1) is fastened. The leads (6,7,8) may all be formed from portions of a unitary lead frame. A second differentially connected pyroelectric detector element (2) may be fastened to another cantilever support (16b) formed by a portion of the same lead frame. The cantilever supports (8d,16b) preferably extend from an insulating block (11) which encapsulates an associated electrical component (18) and which also provides support for the detector elements.

IPC 1-7
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IPC 8 full level
G01J 1/02 (2006.01); **G08B 13/191** (2006.01); **H10N 15/10** (2023.01)

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H01L 2224/48091 (2013.01 - EP US); **H01L 2924/01322** (2013.01 - EP US); **H01L 2924/12033** (2013.01 - EP US)

C-Set (source: EP US)
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